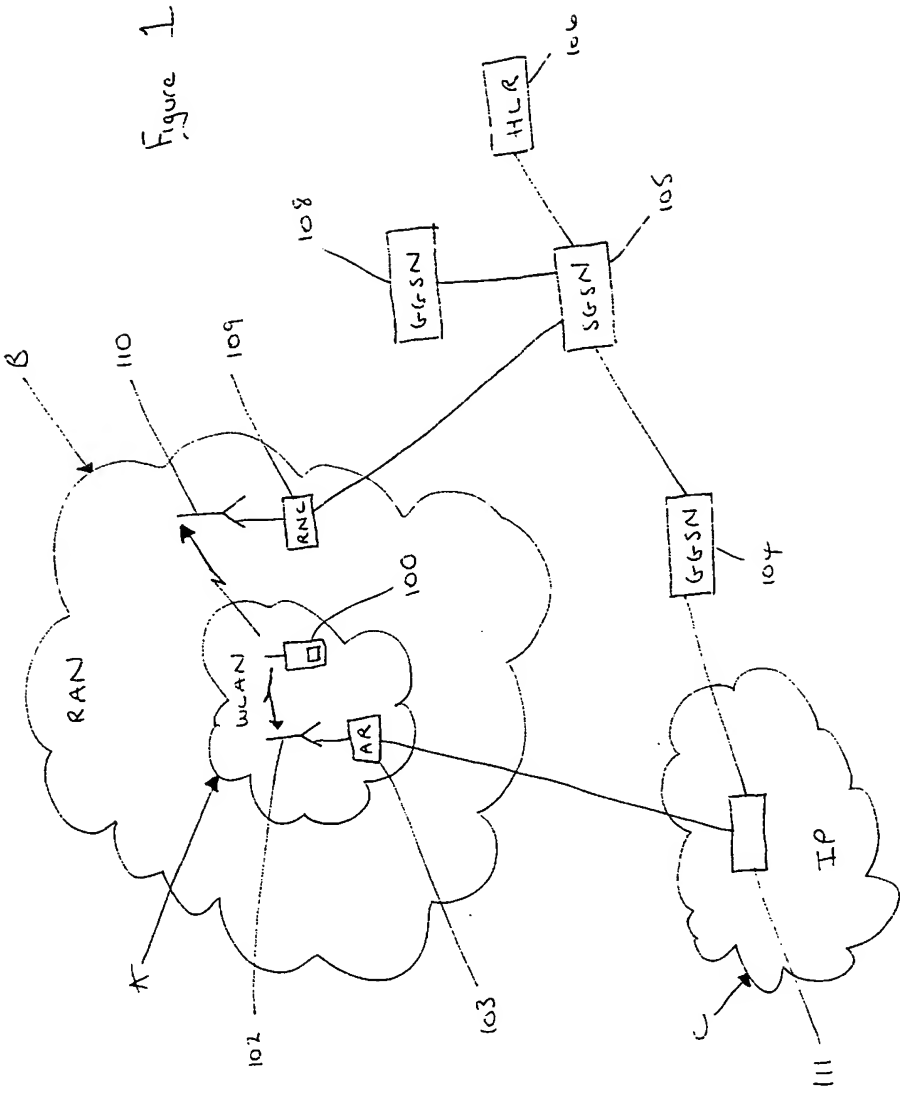
Figure 1


HLR
106
108
GGSN
SGSN
105
B
110
109
RNC
100
RAN
WLAN
AR
GGSN
104
IP
A
102
103
C
111

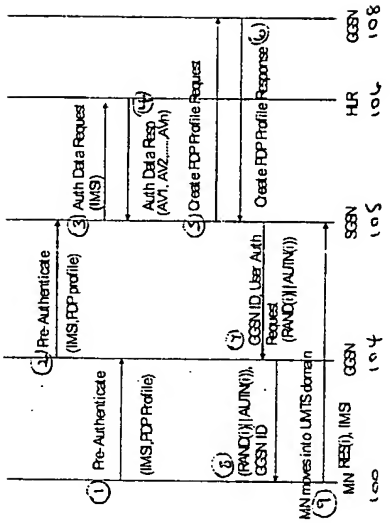

MN REE(i), IMS
GGSN
SGSN
HLR
GGSN
100
104
105
106
108
MN moves into UMTS domain
1. Pre-Authenticate
(IMSI,PDP Profile)
2. Pre-Authenticate
(IMSI,PDP profile)
3. Auth Data Request
(IMSI)
4. Auth Data Resp
(AV1, AV2,....AVn)
5. Create PDP Profile Request
6. (RAND(i)|AUTN(i)),
GGSN ID
7. GGSN ID, User Auth
Request
(RAND(i)|AUTN(i))
Create PDP Profile Response

Figure 2.

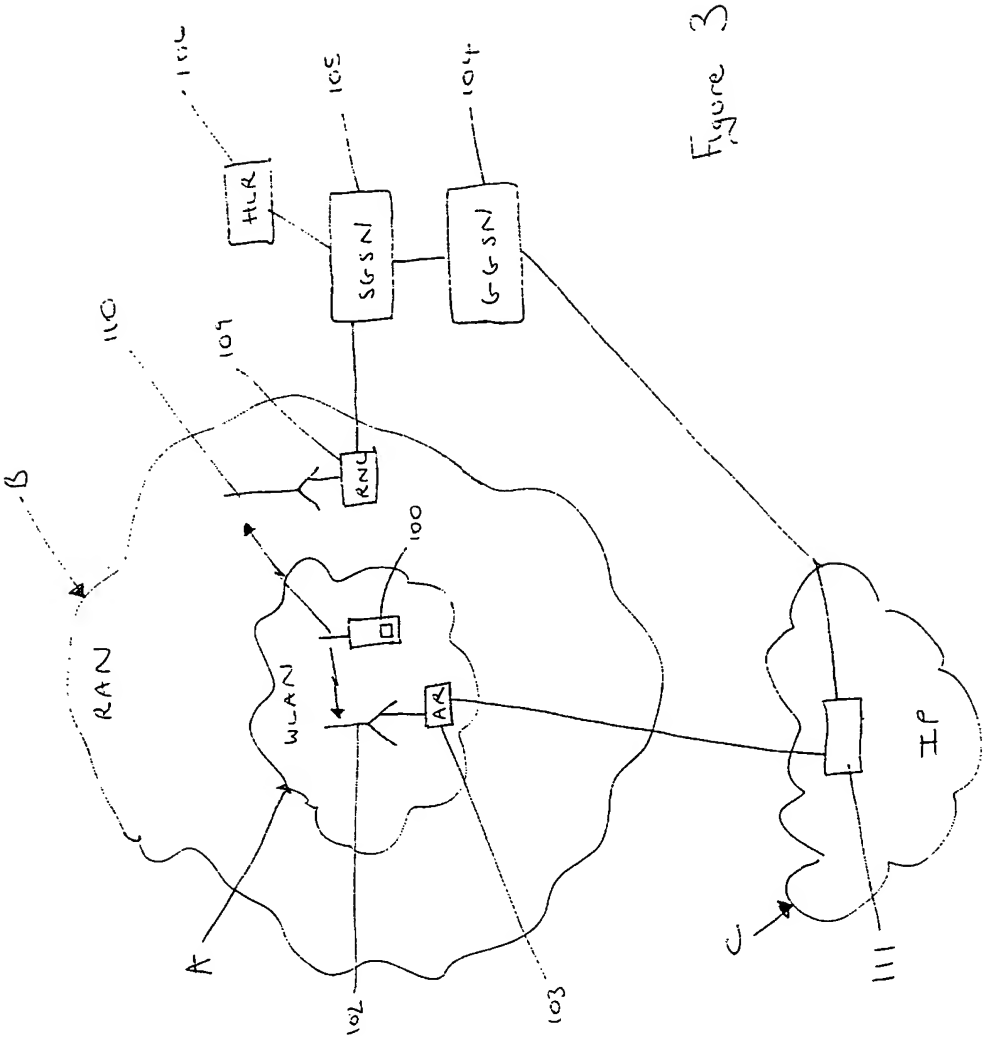

HLR
SGSN
GGSN
RNC
WLAN
AR
RAN
IP
A
B
C
100
101
102
103
104
105
106
107
108
109
110
111

Figure 3

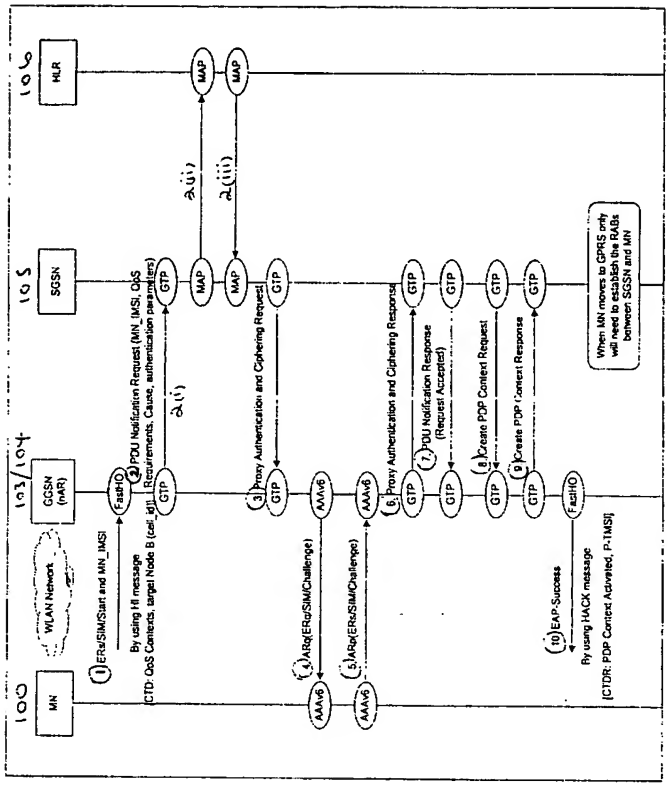

100
MN
WLAN Network
103/104
GGSN (nAR)
105
SGSN
106
HLR
(1) ERq/SIM/Start and MN_IMSI
By using HI message
(CTD: QoS Contents, target Node B (cell_id), Requirements, Cause, authentication parameters)
FastHO
(2) PDU Notification Request (MN_IMSI, QoS
GTP
MAP
2(i)
2(ii)
2(iii)
(3) Proxy Authentication and Ciphering Request
(4) ARq(ERq/SIM/Challenge)
AAA6
(5) ARa(ERa/SIM/Challenge)
(6) Proxy Authentication and Ciphering Response
(7) PDU Notification Response
(Request Accepted)
(8) Create PDP Context Request
(9) Create PDP Context Response
(10) EAP-Success
By using HACK message
[CTDR: PDP Context Activated, P-TMSI]
When MN moves to GPRS only
will need to establish the RABs
between SGSN and MN

Figure 4